UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/050,348	01/15/2002	Gurtej S. Sandhu	MI22-1898	7554
21567 7590 03/24/2008 WELLS ST. JOHN P.S.			EXAMINER	
601 W. FIRST	AVENUE, SUITE 130	0	SCHILLINGER, LAURA M	
SPOKANE, WA 99201			ART UNIT	PAPER NUMBER
			2813	
			MAIL DATE	DELIVERY MODE
			03/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/050,348	SANDHU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Laura M. Schillinger	2813				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 12 De	ecember 2007.					
	action is non-final.					
<i>;</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>41-43</u> is/are pending in the application	4)⊠ Claim(s) <i>41-43</i> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>41-43</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) ☐ Interview Summary Paper No(s)/Mail Da 5) ☐ Notice of Informal P	te				
Paper No(s)/Mail Date 11/21/07. 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 41-43 are rejected under 35 U.S.C. 102(b) as being anticipated by Holloway (*249).

Holloway teaches the following limitations as cited below:

In reference to claim 41 a device comprising:

A gate oxide layer over a semiconductive substrate, the gate oxide layer comprising silicon dioxide and having a thickness of about 5A (Co1.2, lines: 1-20 and Col.1, lines: 50-55); the gate oxide layer having a N-enriched region which is only in an upper half of the gate oxide layer (Col.2, liens: 1-20);

At least one conductive layer over the gate oxide layer (Col.1, lines: 15-30); and

Source/drain regions within the semiconductive substrate; the source/drain regions being gatedly connected to one another by the conductive layer (inherent-needs source and drains gatedly connected to have a functioning MOSFET).

1955) (selection of optimum ranges within prior art general conditions is obvious).

In reference to claim 42 wherein the conductive layer comprises conductively doped silicon (Col.1, lines: 15-30).

In reference to claim 43 wherein the conductive layer comprises p-type conductively doped silicon (Col.1, lines: 15-30).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 41-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holloway (*249).

Holloway teaches the following limitations as cited below:

In reference to claim 41 a device comprising:

A gate oxide layer over a semiconductive substrate, the gate oxide layer comprising silicon dioxide and having a thickness of about 5A (Co1.2, lines: 1-20 and Col.1, lines: 50-55); the gate oxide layer having a N-enriched region which is only in an upper half of the gate oxide layer (Col.2, liens: 1-20);

At least one conductive layer over the gate oxide layer (Col.1, lines: 15-30); and

Source/drain regions within the semiconductive substrate; the source/drain regions being gatedly connected to one another by the conductive layer (inherent-needs source and drains gatedly connected to have a functioning MOSFET).

1955) (selection of optimum ranges within prior art general conditions is obvious).

However, Holloway fails to explicitly teach wherein the thickness of the gate oxide is 5 A.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Holloway's teachings to further include a 5A thick gate oxide layer because Holloway

teaches that gate oxides may be less than 10 nm which would include 5A (Col.1, lines: 50-55).

In reference to claim 42 wherein the conductive layer comprises conductively doped silicon (Col.1, lines: 15-30).

In reference to claim 43 wherein the conductive layer comprises p-type conductively doped silicon (Col.1, lines: 15-30).

Response to Arguments

Applicant's arguments filed 12/12/07 have been fully considered but they are not persuasive. Applicant argues that Holloway fails to anticipate Applicant's amended claim language of 5A- however as pointed out above- Holloway teaches that gate oxides can be less than 10 nm- which includes 5A..

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M. Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/050,348 Page 6

Art Unit: 2813

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Laura M Schillinger/ Primary Examiner, Art Unit 2813

03/13/08